KOS 1133 510(k) SUMMARY FOR THE SIREMOBIL C 06

Submitted by:

Siemens Medical Solutions USA, Inc. 51 Valley Stream Parkway Malvern, PA 19355

April 18, 2005

This 510(k) summary of safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR §807.92.

1. Contact Person:

Michael J. Andrews 51 Valley Stream Parkway, E-50

Malvern, PA 19355 Phone: (610) 448-4599 Fax: (610) 448-1787

2. Device Name and Classification:

Trade Name:

ARCADIS Avantic

Classification Name:

Mobile X-Ray System

Classification Panel:

Radiology

CFR Section:

21 CFR §892.1720

Device Classification:

Class II

Product Code:

90IZL

3. Substantial Equivalence:

The ARCADIS Avantic is substantially equivalent to the following devices:

Predicate Device Name	510(k) Number	Clearance Date	Comparable Properties	
Siemens Siremobil C06	K040066	02/12/2004	Hardware	
Trade name:			 Control Software 	
ARCADIS Varic			 Imaging system 	
Siemens AXIOM Artis U	K040675	06/10/2004	• X-ray features	
			 Intended use 	

4. Device Description:

The ARCADIS Avantic is an x-ray system which consists of a mobile C-arm configured with a high frequency generator, X-ray tube assembly, image intensifier, TV camera, laser target devices, electronics cabinet, a monitor trolley and digital image storage system which consists of the digital memory device, image monitor(s), and user interface. The system is equipped with a footswitch and a hand switch for radiation release.

K051133

5. Intended Use of the Device:

The ARCADIS Avantic is a mobile x-ray system which can operate in six different modes: Digital Radiography, Fluoroscopy, Pulsed Fluoroscopy, Digital Cine Mode DCM, Subtraction, and Roadmapping, which are necessary in performing a wide variety of clinical procedures. Clinical applications may include, but are not limited to card/vascular, gastroenterology, electrophysiology, urologic, orthopedic, neurologic, pediatrics, endoscopy, pain therapy and emergency room procedures

6. Summary of Technological Characteristics of the Devices Compared to the Predicate:

The ARCADIS Avantic is a modification to the ARCADIS Varic. Mechanically the changes are minor in design and style. The X-ray generator and X-ray tube are designed to provide the increased power.

The imaging chain reflects the current standard of 1024² image processing and display with flat screen monitors. An uninterruptable power supply provides additional safety to image and demographic data in the event of a power outage.



JUN 1 - 2005

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Michael J. Andrews, Ph.D. Senior Manager, Regulatory Submissions Siemens Medical Solutions USA, Inc. 51 Valley Stream Parkway MALVERN PA 19355 Re: K051133

Trade/Device Name: ARCADIS Avantic Regulation Number: 21 CFR 892.1720 Regulation Name: Mobile x-ray system

Regulatory Class: II Product Code: IZL Dated: April 29, 2005 Received: May 3, 2005

Dear Dr. Andrews:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the <u>Code of Federal Regulations</u>, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

21 CFR 876.xxxx	(Gastroenterology/Renal/Urology)	240-276-0115
21 CFR 884.xxxx	(Obstetrics/Gynecology)	240-276-0115
21 CFR 892.xxxx	(Radiology)	240-276-0120
	(Radiology)	240-276-0100
Other		2.0 2.0 0100

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Nancy C. Brogdon

Director, Division of Reproductive, Abdominal, and Radiological Devices

Nancy C brogdon

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

INDICATIONS FOR USE

510(k) Number (if known): <u>Ko5 /133</u> Device Name: <u>ARCADIS Avantic</u>
Indications For Use:
The ARCADIS Avantic is a mobile x-ray system which can operate in six different modes: Digital Radiography, Fluoroscopy, Pulsed Fluoroscopy, Digital Cine Mode (DCM), Subtraction, and Roadmapping, which are necessary to perform a wide variety of clinical procedures. Clinical applications may include, but are not limited to, card/vascular, gastroenterology, electrophysiology, urologic, orthopedic, neurologic, pediatrics, endoscopy, pain therapy and emergency room procedures
(Please do not write below this line - continue on another page if needed)
Concurrence of the CDRH, Office of Device Evaluation (ODE)
Prescription Use OR Over-The-Counter Use (Per 21 CFR 801.109)
(Division Sign-Off) Division of Reproductive, Abdominal, and Radiological Devices KUS 133